

NATIONAL TALENT SEARCH EXAMINATION (NTSE-2020) STAGE -1 STATE : JHARKHAND PAPER : MAT

(4) Bengaluru

(4) TJHIU

Date: 17/11/2019

Max. Marks: 100

SOLUTIONS

Time allowed: 60 mins

Read the following instructions carefully before you answer the questions. Answers are to be SHADED on a SEPARATE OMR Answer sheet given, with a HB pencil. Read the Instructions printed on the OMR sheet carefully before answering the questions.

(3) Chandigarh

Please write you Centre Code No. and Roll no. very clearly (only one digit in one block) on the

Directions: Questions (1 to 10)

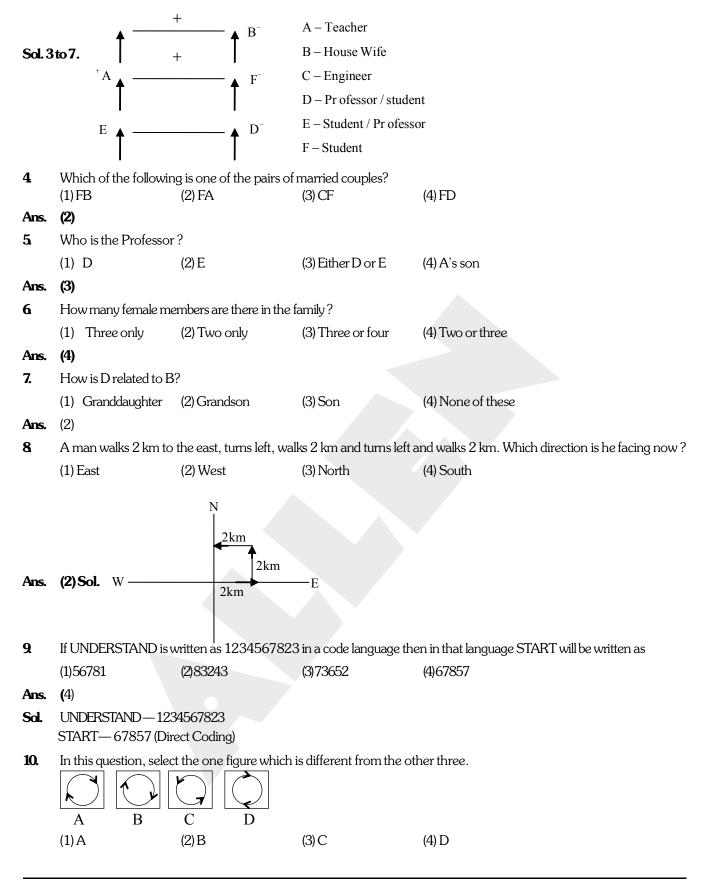
In the Number series given below, one Number is missing. Each series is followed by five alternatives (1), (2), (3) and (4) . One of them is the right answer. Identify and indicate it as per the "Instructions".

- 1. Qutub Minar : Delhi : : Rock Garden : ?
 - (1) Kolkata (2) Chennai
- 1. Ans.(3), Chandigarh
- 2 If in a code CLOUD is written as DMPVE, then in the same code how SIGHT will be written?
 - (1) SGHJV (2) UGHHT (3) UHJFW
- Ans. (4)



Q.3-7 Read the following information and answer the questuin based on it :

- (i) A, B, C, D, E and F are six family members.
- (ii) There is one Teacher, one Professor, one Enginner, two Students and one Housewife.
- (iii) There are two married couples in the family.
- (iv) A who is a Teacher is father of E.
- (v) F is a Student and mother of D.
- (vi) B is grandmother of D and is a Housewife.
- (vii) C is father of A and is an Engineer.
- (viii) D is brother of E.
- **3** Which of the following statements is denfinitely true?
 - (1) C is father of the Student (2) B is grandmother of the Professor
 - (3) F is the father of Professor (4) D is the brother of the Professor
- Ans. (2)



Ans. (3)

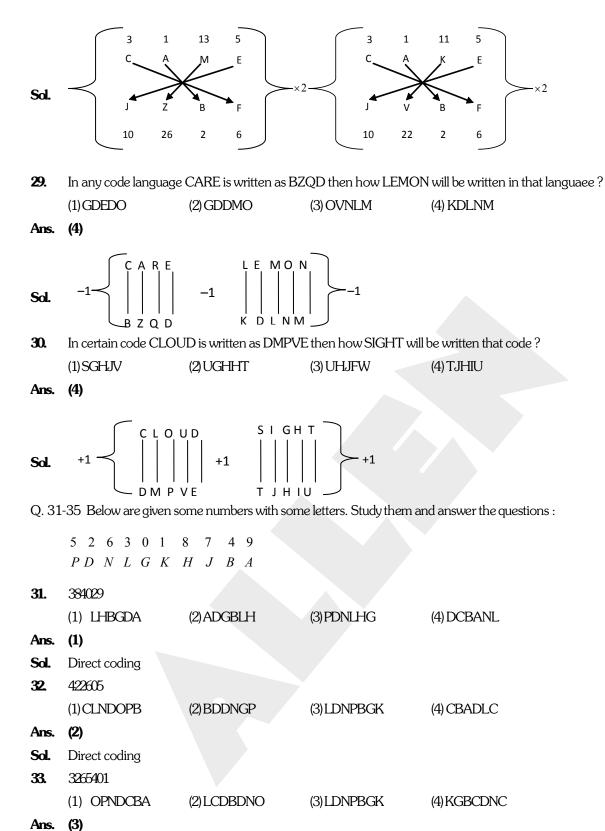
 $\label{eq:sol} \textbf{Sol.} \quad \text{All are moving clock wise excluding } C$

Q.11-13 Study the following diagram :

	Youth	Educated		
	4 3 6 7	3 Employed		
11.	Identify the region 1	representing the youth	s who are employed, bu	ut not educated.
	(1)4,5,6	(2) 4 only	(3) 1, 4, 7	(4) 4, 7
Ans.	(2)			
Sol.	By visualizing			
12.	Identify the region i	representing youths wh	no are educated but not	t employed.
	(1) 2, 5, 4	(2) 2, 5, 6	(3) 4, 5, 6	(4) 2 only
Ans.	(4)			
Sol.	By visualizing			
13.	Identify the region	representing youths wh	no are educated and en	nployed also
	(1) 6 only	(2) 7 only	(3) 5 only	(4) none of these
Ans.	(3)			
Sol.	By visualizing			
14.	If $' \times$ ' means 'sum' following equations		', '÷'means 'subtract	' and '+' means 'multiplication, then which of the
	(1) $16 + 5 - 10 \times 4 \div$	3=9	(2) $16 - 5 \times 10 \div 4 +$	-3 = 12
	(3) $16 + 5 \div 10 \times 4$	-3 = 9	(4) $16 + 5 \div 10 \times 4 -$	-3=9
Ans.	(1)			
Sol.	By checking optio	n		
	$16 + 5 - 10 \times 4 \div 3$			
	$16 - 5 \div 10 + 4 - 3$	= 9		
Q.15-	16 Identify the mis	ssing number in the foll	owing sequence :	
15.	31, 37, ?, 43, 47, 53			
	(1) 39	(2)40	(3)41	(4) 42
Ans.				
	(3)			

16. 2, 3, 6, 15, 42,? (1)84(2)123 (3)94 (4)60 (2) Ans. 2, 3, 6, 15, 42, ? Sol. +1 +3 +9 +27 +81x3 x3 x3 x3 17. If BAT is coded as 283, CAT is coded as 383 and ARE is coded as 801, the code for BETTER is (1) 123301 (2)213310 (3)213301 (4)012334 Ans. (2) Sol. BAT----------801, then ARE-BETTER-213310 (Direct Coding) 18. How many rectangles are there in the following diagram (1) 5 (2)15 (3)11 (4) 12 Ans. (3) Sol. By counting 19. In any code language DEVIL is written as ABSFI, then how OTHER will be written in that language ? (1)LRECO (2) LQEBO (3) LWEBO (4) RWKHV Ans. (2) OTHER Sol. ABSFI LQEBO 20. What will be in place of (?)? A, G, M, R, X, ?(2)B (4) D (1) A (3) C Ans. (4) A, G, M, R, X,1, 7, 13, 18, 24, 13 + 18 = 31Sol. 7 + 24 = 311 + ? = 31? = 30 = 26 + 4 = D

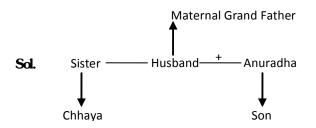
(i).P(2) Q(3) P(4).OAme(3)SalAme(3)SalAme(3)SalAme(3)Cime: Punishment :: Cod work: ?(1) Sin(2) Reward(3) God(4) EntertainmentAme(2)20(3) Final (2) Reward(3) God(4) EntertainmentAme(2)(3) Tax(4) ExchangeAme(2)(3) Tax(4) ExchangeAme(2)(3) Tax(4) ExchangeAme(3)(3) CW(4) ExchangeAme(3)(3) CW(4) ExchangeAme(3)(3) CW(4) ExchangeAme(3)(3) CW(4) ExchangeSalSize the word build table build table build table build table base base base base base base base bas	21.	What will be in place of (?)? AT, CS, ER, GQ,?				
Sol $A^{T} = \frac{1}{2} = \frac{1}{42}$ Q22Crime: Punishment :: Good work :? (1) Sin(2) Reward(3) Good(4) EntertainmentArea(2)Import : Export :: Expenditure : ? (1) Rewnue(2) Deficit(3) Tax(4) ExchangeArea(1)(2) Deficit(3) Tax(4) ExchangeArea(1)(1) P(2) CR(3) CW(4) ExchangeArea(1)(1) P(2) CR(3) CW(4) ExchangeArea(1)(2) CR(3) CW(4) ExchangeArea(4)(2) CR(3) CW(4) ExchangeArea(4)(2) CR(3) CW(4) ExchangeArea(3)(3) CW(4) ExchangeArea(3)(3) CW(4) ExchangeArea(3)(3) CW(4) ExchangeArea(3)(3) CW(4) ExchangeArea(3)(3) CW(4) ExchangeArea(3)(3) APPLICABLE(4) NOTIFICATION(1) MUTUALY(2) LIMITATION(3) APPLICABLE(4) NOTIFICATION(1) MUTUALY(2) LIMITATION(3) APPLICABLE(4) ATE(2)(3) 3(4) 4Area(3)(2) 2(3) 3(4) 4Area(3)(3) PRORITY(4) PURITY(1) I(2) 2(3) ARORITY(4) PURITY(1) PURES(2) PURSUT(3) PRORITY(4) PURITYArea(2)(3) SURORITY(4) PURITYArea(2)(3) SURORITY(4) FUXArea<		(1)JP	(2) IQ	(3) IP	(4) JO	
Sol $AT \ CS \ FR \ CQ$ $C \ Q$ 22Crime: Punishment: :: Good work: ? (1) Sin(2) Reward(3) Good(4) EntertainmentAres(2)23.Import: Export: :: Expenditure : ? (1) Revenue(2) Deficit(3) Tax(4) ExchangeAres(1)24.If in English alphabets first and twenty-sixth letters are a pair, second and twenty-fifth are a pair and so on, then which of the following is a like pair ? (1) IP(2) GR(3) CW(4) EVAres(4)50. $E \ V$ $5 \ + 22 = 27$ (3) CW(4) EVAres(4)51.Select the word which can be made by using the letters of the given word : MULTIPLICATION (1) MUTUALY(2) LIMITATION(3) APPLICABLE(4) NOTIFICATIONAres(2)53.Select the word from the alternatives which can be made by using each letter of the group of letters ACER only once ? (1) 1(2) (2) (3) 3(4) 4Ares(3)54.RACE, ACRE, CARE55.Select the word from the alternatives which cannot be made by using each letter of the group of letters ACER only once ? (1) 1(3) 3(4) 4Ares(3)56.RACE, ACRE, CARE77.Select the word from the alternatives which cannot be made by using each letter of the given word. SUPERIORITY (1) PURSE78.(2)59.Select the word from the alternatives which cannot be made by using each letters of the given word. SUPERIORITY (1) PURSE78.Select the word from the alternatives which cannot be made by using each letters of t	Ans.	(3)				
Sol $AT \ CS \ FR \ CQ$ $C \ Q$ 22Crime: Punishment: :: Good work: ? (1) Sin(2) Reward(3) Good(4) EntertainmentAres(2)23.Import: Export: :: Expenditure : ? (1) Revenue(2) Deficit(3) Tax(4) ExchangeAres(1)24.If in English alphabets first and twenty-sixth letters are a pair, second and twenty-fifth are a pair and so on, then which of the following is a like pair ? (1) IP(2) GR(3) CW(4) EVAres(4)50. $E \ V \ S \ + 22 = 27$ (2) GR(3) CW(4) EVAres(4)51.Select the word which can be made by using the letters of the given word : MULTIPLICATOIN (1) MUTUALY(2) LIMITATION(3) APPLICABLE(4) NOTIFICATIONAres(2)53.Select the word from the alternatives which can be made by using each letter of the group of letters ACER only once ? (1) 1(2) (2) (3) (4) 4Ares(3)53.Select the word from the alternatives which cannot be made by using each letter of the group of letters ACER only once ? (1) 163.Select the word from the alternatives which cannot be made by using each letter of the given word. SUPERIORITY (1) PURSE74.(2) CINSUT(3) PRIORITY (4) PURITY75.Select the word from the alternatives which cannot be made by using each letter of the given word. SUPERIORITY (1) PURSE75.Select the word from the alternatives which cannot be made by using each letter of the given word. SUPERIORITY (1) PURSE76.(2) Subservation77.						
1) Sin(2) Revard(3) God(4) Ententionment20Import :: Export :: Expo	Sol.	AT CS F				
Area 0 22Input: Export: Experiture : P(1) Revenue(2) Deficit(3) Tax(4) ExchangeArea024In English alphabet birst and twenty-situb letters are a pair, see or	22.	Crime : Punishment :	: Good work : ?			
2Import : Export :: Experience :: (1) Revenue(2) Deficit(3) Tax(4) Exchange4(1)(2) Deficit(3) Tax(4) Exchange4(1)(2) Oeficit(3) CW(4) Exchange7(1) IP(2) GR(3) CW(4) Exc7(1) IP(2) GR(3) CW(4) Exc7(2) GR(3) CW(4) Exc7(2) GR(3) CW(4) Exc7(2) GR(3) CW(4) Exc7(2) CR(3) CW(4) Exc7(2) Exc(3) CW(4) Exc7(2) Exc(3) CW(4) CUTIPLCATOIN7(2) C(3) APPLICABLE(4) NOTIFICATION7(2) C(3) APPLICABLE(4) NOTIFICATION7(2) C(3) APPLICABLE(4) PROTIFICATION7(2) C(3) RORITY(4) PROTIFICATION7(2) C(3) PRORITY(4) PROTIFICATION7(2) Exc(3) PRORITY(4) PROTIFICATION7(3) Exc(3) PRORITY(4) PROT7(4) Exc(2) Exc(3) PRORITY7(4) Exc(2) Exc(4) Exc7(4) Exc(4) Exc(4) Exc7(4) Exc(4) Exc7(4) Exc		(1) Sin	(2) Reward	(3) Good	(4) Entertainment	
Amage (a) Defate (a) Stan (b) Exchange Amage (b) Exchange (b) Exchange Amage (c) Exchange (c) Exchange (c) Exchange (c) Exchange (c) Exchange (c) Exchange (c) Exchange	Ans.	(2)				
Arss (1) 24 If in English alphabets first and twenty-sixth letters are a pair, second and twenty-fifth are a pair and so on, then which of the following is a like pair? (1) IP (2) GR (3) CW (4) EV Arss (4) E V V V Scd E V V V V V Scd Select the word which can be made by using the letters of the given word : MULTIPLICATOIN (1) MUTUALY (2) LIMITATION (3) APPLICABLE (4) NOTIFICATION Arss (2) V (4) P V V V Arss (2) V (3) APPLICABLE (4) NOTIFICATION V V Arss (2) V (3) APPLICABLE (4) NOTIFICATION V V Arss (2) V (3) APPLICABLE (4) NOTIFICATION V V Arss (2) (2) Z (3) 3 (4) 4 V V Arss (3) V V (4) PURTY V V V <th>23.</th> <th>Import : Export : : Exp</th> <th>penditure : ?</th> <th></th> <th></th>	23.	Import : Export : : Exp	penditure : ?			
24.In English alphabets first and twenty-sixth letters are a pair, second and twenty-fifth are a pair and so on, then which of the following is a like pair?(1) IP(2) GR(3) CW(4) EVAns.(4)Scd.EV5 $\pm 22 = 27$ 25.Select the word which can be made by using the letters of the given word : MULTIPLICATOIN (1) MUTUALY(2) LIMITATION(3) APPLICABLE(4) NOTIFICATIONAns.(2)Scd.By observationAns.(2)SolBy observationAns.(2) 2(1) 1(2) 2(3) 3(4) 4Ans.(2) 2SolRACE, ACRE, CAREIII PURSE(2) PURSUT(3) PRIORITY(4) PURITYAns.(2)Select the word form the alternatives which cannot be made by using the letters of the given word. SUPERIORITY (1) PURSE(1) PURSE(2) PURSUTSolBy observationAns.(2)SolBy observationAns.(2)SolBy observationAns.(2)SolBy observationAns.(2)SolBy observationAns.(2)SolBy observationAns.(2)SolBy observationAns.(2)Sol(3) AUSF(4) FBVJ		(1) Revenue	(2) Deficit	(3) Tax	(4) Exchange	
of the following is a like pair ?(1) IP(2) GR(3) CW(4) EVAns.(4)Sol. $E = V$ (3) CW(4) EVSol. $E = V$ (3) CW(4) EVSol.Select the word which can be made by using the letters of the given word : MULTIPLICATOIN (1) MUTUALY(2) LIMITATION(3) APPLICABLE(4) NOTIFICATIONSol.By observation(3) APPLICABLE(4) NOTIFICATION(4) PURTYSol.RACE, ACRE, CARE(3) (3) (4) 4(4) PURTYAns.(3)(3) PRIORITY(4) PURTY(1) PURSE(2) PURSUIT(3) PRIORITY(4) PURTYAns.(2)(2)(3) SURIORITY(4) PURTYSol.By observation(3) PRIORITY(4) PURTYAns.(2)(3) PRIORITY(4) PURTYSol.By observation(3) SURIORITY(4) PURTYSol.By observation(3) SURIORITY(4) FBVJ	Ans.	(1)				
(1) P $(2) GR$ $(3) CW$ $(4) EV$ Area (4) (4) (4) (4) (4) (4) (4) (5) (2) (2) (5) (2) (2) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (2) (3) (2) (3) (2) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3)	24 .			letters are a pair, secon	nd and twenty-fifth are a pair and so on, then which	
Ans.(4)scaleEV5+ 22 = 27Ans.Select the word white an be made by using the letters of the given word : MULTIPLICATOIN (1)MUTUALY(1)MUTUALY(2)LIMITATION(3)APPLICABLE(4)NOTIFICATIONAns.2StateHow many meaning English words can be made by using each of the group of letters ACER only once ?(1) 1(2) 2(3) 3(4) 4Ans.3StateSelect the word for the atternatives white made by using each of the group of letters ACER only once ?(1) 1(2) 2(3) 3(4) 4Ans.3StateSelect the word for the atternatives white made by using each of the group of letters ACER only once ?(1) PURSE(2) PURSUT(2) PURSUT(3) PRIORITY(3) PRIORITY(4) PURITYAns.2StateSelect the word for the atternatives white made by using each of the given word. SUPERIORITY(1) PURSE(2) PURSUT(2) PURSUT(3) PRIORITY(3) PRIORITY(4) PURITYAns.Select the word for the site written the site site for CAKE in that language ?(1) JEVF(2) FUR(3) JUE				(2) 2111		
SolE S + 22 = 2725.Select the word which can be made by using the letters of the given word : MULTIPLICATOIN (1) MUTUALY (2) LIMITATION (2) LIMITATION (3) APPLICABLE (3) APPLICABLE (4) NOTIFICATIONAns.(2)SolBy observation26.How many meaningful English words can be made by using each letter of the group of letters ACER only once ? (1) 1(1) 1(2) 2(3) 3Ans.(3)SolRACE, ACRE, CARE27.Select the word from the alternatives which cannot be made by using the letters of the given word. SUPERIORITY (1) PURSE(2)(3) PRIORITY (4) PURITYAns.(2)SolBy observation28.If in any code language CAME is written as JZBF then, what will the for CAKE in that language ?(1) JBVF(2) FJVB(3) JVBF(4) FBVJ			(2)GR	(3) CW	(4) EV	
Sol $5 + 22 = 27$ 25.Select the word which can be made by using the letters of the given word : MULTIPLICATOIN (1)MUTUALY (2)LIMITATION (3)APPLICABLE (4)NOTIFICATIONAns.(2)SolBy observation26.How many meaning the letters of the group of letters ACER only once ? (1) 1(1) 1(2) 2(3) 3(4) 4Ans.(3)SolRACE, ACRE, CARE27.Select the word from the alternatives which cannot be made by using the letters of the given word. SUPERIORITY (1) PURSE(1) PURSE(2) PURSUIT (3) PRIORITYAns.(2)SolBy observation28.If in any code language CAME is written as JZBF then, what will be written for CAKE in that language ? (4) FBVJ	Ans.	(4)				
 S + 22 = 27 Select the word which can be made by using the letters of the given word : MULTIPLICATOIN (1) MUTUALY (2) LIMITATION (3) APPLICABLE (4) NOTIFICATION Ans. (2) Sol By observation 26. How many meaningful English words can be made by using each letter of the group of letters ACER only once ? (1) 1 (2) 2 (3) 3 (4) 4 Ans. (3) Sol RACE, ACRE, CARE Z. Select the word from the alternatives which cannot be made by using the letters of the given word. SUPERIORITY (1) PURSE (2) PURSUIT (3) PRIORITY (4) PURITY Ans. (2) Sol By observation 28. If in any code language CAME is written as JZBF then, what will be written for CAKE in that language ? (4) FBVJ 	Sal					
(1)MUTUALY(2)LIMITATION(3)APPLCABLE(4) NOTIFICATIONAmage: Amage: Am	30 .	5 + 22 = 27				
Ans 2 Selection 2 3 3 3 4 3	25.	Select the word whic	h can be made by usin	g the letters of the give	en word : MULTIPLICATOIN	
Sol. By observation 26 How many meaningthereights words can be made by using each letter of the group of letters ACER only once? (1) 1 (2) 2 (3) 3 (4) 4 Ans. (3)		(1) MUTUALY	(2) LIMITATION	(3) APPLICABLE	(4) NOTIFICATION	
 How many meaningFul English words can be made by using each letter of the group of letters ACER only once? 1 1 (2) 2 (3) 3 (4) 4 Ans. (3) KACE, ACRE, CARE Select the word from the alternatives which cannot be made by using the letters of the given word. SUPERIORITY PURSE (2) PURSUT (3) PRIORITY (4) PURITY Ans. (2) (2) PURSUT (3) PRIORITY (4) PURITY Ans. (2) (3) PRIORITY (4) PURITY Ans. (2) (2) (3) PRIORITY (4) PURITY Ans. (2) (3) PRIORITY (4) PURITY 	Ans.	(2)				
(1) 1(2) 2(3) 3(4) 4Ans.(3)Sol.RACE, ACRE, CARE27.Select the word from the alternatives which cannot be made by using the letters of the given word. SUPERIORITY (1) PURSE(1) PURSE(2) PURSUIT(3) PRIORITY(4) PURITYAns.(2)Sol.By observation28.If in any code language CAME is written as JZBF then, what will be written for CAKE in that language?(1) JBVF(2) FJVB(3) JVBF(4) FBVJ	Sol.	By observation				
Ans.(3)SoleRACE, ACRE, CARE21.Select the word for the alternatives which be made by support the given word. SUPERIORITY(1)(2)(2)(3)Ans.(2)SoleBy observationSoleBy observationAns.(2)(1)(2)(2)(3)(3)(4)(1)(2)(1)(2)(1)(2)(1)(2)(2)(3)(3)(4)	26 .	How many meaning	ful English words can b	e made by using each	letter of the group of letters ACER only once ?	
Sol.RACE, ACRE, CARE.27.Select the word from the alternatives which cannot be made by using the letters of the given word. SUPERIORITY (1) PURSE (2) PURSUIT (3) PRIORITY (4) PURITYAns.(2)Sol.By observation28.If in any code language CAME is written a VZBF then, what witten for CAKE in that language ? (1) JBVF (2) FJVB (3) JVBF (4) FBVJ		(1) 1	(2)2	(3) 3	(4) 4	
27.Select the word from the alternatives which cannot be made by using the letters of the given word. SUPERIORITY (1) PURSE (2) PURSUIT (3) PRIORITY (4) PURITYAns.(2)Sol.By observation28.If in any code language CAME is written a VZBF then, what written for CAKE in that language ? (1) JBVF (2) FJVB (3) JVBF (4) FBVJ	Ans.	(3)				
(1) PURSE(2) PURSUT(3) PRIORITY(4) PURITYAns.(2)(2)(3) PRIORITY(4) PURITYSol.By observation(1) I any code language CAME is written by THEN, what written for CAKE in that language ?(1) JBVF(2) FJVB(3) JVBF(4) FBVJ	Sol.	RACE, ACRE, CARE				
Ans. (2) Sol. By observation 28. If in any code language CAME is written as JZBF then, what will be written for CAKE in that language ? (1) JBVF (2) FJVB (3) JVBF (4) FBVJ	27.	Select the word from	the alternatives which	cannot be made by us	ing the letters of the given word. SUPERIORITY	
Sol. By observation 28. If in any code language CAME is written as JZBF then, what will be written for CAKE in that language ? (1) JBVF (2) FJVB (3) JVBF (4) FBVJ		(1) PURSE	(2) PURSUIT	(3) PRIORITY	(4) PURITY	
28. If in any code language CAME is written as JZBF then, what will be written for CAKE in that language ? (1) JBVF (2) FJVB (3) JVBF (4) FBVJ	Ans.	(2)				
(1) JBVF (2) FJVB (3) JVBF (4) FBVJ	Sol.	By observation				
	28.		-		be written for CAKE in that language ?	
Ans. (3)			(2) FJVB	(3) JVBF	(4) FBVJ	
	Ans.	(3)				



Sol. Direct coding

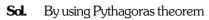
34.	1003241				
	(1)KGGDLBDK	(2) LCDBDNO	(3) BCDBAAC	(4) KGGLDBK	
Ans.	(4)				
Sol.	Direct coding				
35.	321567				
	(1)LDKPNJ	(2) JNPKDL	(3) LKDNJP	(4) PJKLDN	
Ans.	(1)				
Sol.	Direct coding				
36.	-		-	to which the 'Crocodile' will be related ?	
	(1) Amphibian	(2) Aquatic	(3) Mammal	(4) Bird	
Ans.	(1)				
37.	The relation that exis ?	ts between China and I	Beijing, the same relati	on exists between Japan and which of the following	
	(1) Moscow	(2) Rome	(3) Berlin	(4) Tokyo	
Ans.	(4)				
38.	The relation which ex the following ?	xists between pasteuriza	ation and Louis Pasteur	r the relation exists between Aeroplane and which of	
	(1) G. Marcony	(2) J.L. Baird	(3) Wright brothers	(4) Brecket	
Ans.	(3)				
39 .	The relation exists be	tween DSO and GVR		s between NDV and which of the following ?	
	(1)YGQ	(2)QYG	(3)YQG	(4)QGY	
Ans.	(4)				
Sol.	+3	+3			
40.		ts between 'Canada' ar	nd 'Maple leaves' the sa	ame relation exists between 'Sri Lanka' and which of	
	(1) Lion and Sword	(2) Olive leaves	(3) Eagle	(4) Rose flower	
Ans.	(1)				
Q.41	43 Answer the follow	wing questions on the	basis of the informatio	n given :	
	(A) The meaning of	P+Q is $-P$ is the brown	other of Q		
	(B) The meaning of	P-Q is $-P$ is the mo	other of Q		
	(C) The meaning of	$P \times O$ is $-P$ is the sist	ster of Q		
	(C) The meaning of $P \times Q$ is $-P$ is the sister of Q				

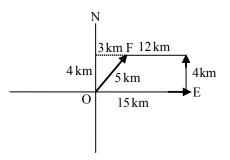
41. Which of the following means that M is the maternal uncle of R?



46. A lady walked 15 km in the eastern direction, then walked 4 km towards north and again walked 12 km towards west. How far is he from her starting place ?
(1) 31 km
(2) 5 km
(3) 19 km
(4) 27 km

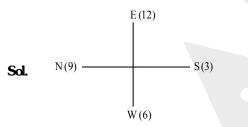
Ans. (2)





47. If a clock is kept in such a way that its figure of 12 comes towards east, then in which direction will be the figure of 9? (1) South (2) West (3) North (4) East

Ans. (3)



48. In the morning I went for a walk in the garden. I was standing in a place and wanted to see the sun. For this purpose I turned 90° anticlockwise. But I could not see the sun. So I turned 270° clockwise. This time I could see the sun. In which direction I was facing at the first?

(1) North - west (2) North (3) South - east (4) West

Ans. (4)

Sol. $-90^{\circ} + 270 = +180^{\circ}$

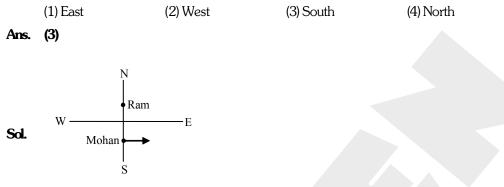
49. In a morning just after the sunrise A and B was talking between cach other face to face. If the shadow of B fell just on the left of A, then just opposit of which direction was the face of A?

(1) North - east (2) North (3) West (4) South

Ans. (4)

Sol. W \xrightarrow{A}_{S}

50. In the evening just before sunset, Ram and Mohan were standing in a courtyard and talking between each other. If the shadow of Mohan falls is just on the left of Ram, then in which direction is the face of Ram ?



51. Kiran, Suman, Vidya, Naina and Kamulu arc five friends. Naina is younger than Kamala, Suman is younger than Vidya and Vidya is younger than Kiran. If Suman is elder than Kamala then who will be in the middle in the order of their ages ?

(1) Kamala (2) Suman (3) Vidya (4) Kiran

Ans. (2)

- **Sol.** Name \longrightarrow Kamla \longrightarrow Suman \longrightarrow Vidya \longrightarrow Kiran
- 52. Garima, Rupa, Anjali and Khushbu are made to stand in ascending order of their ages. If Rupa is elder than Khushbu, Garima is younger than Anjali and elder than Rupa, then who is the youngest?

(1) Anjali	(2) Khushbu	(3) Rupa	(4) Garima
------------	-------------	----------	------------

Ans. (2)

Sol. Khushbu < Rupa < Garima < Anjali

53. In an examination Suman has got equal marks as Kavita. Meena got more marks than Geeta, but her marks was less than Suman. Who got the least marks ?

(1) Suman	(2) Meena	(3) Geeta	(4) Kavita

Ans. (3)

Sol. Geeta < Meena < Suman = Kavita

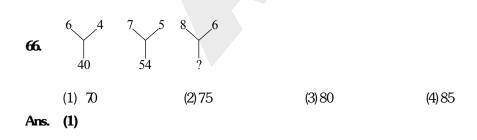
54.	Gopal is elder than Mohan but younger than Ram. Mohan is elder than Sohan but younger than Ram. Who is the eldest ?				
	(1) Mohan	(2) Sohan	(3) Ram	(4) Gopal	
Ans.	(3)				
Sol.	Sohan \longrightarrow Mohan	\longrightarrow Gopal \longrightarrow Ram	1		
55.	Sourav is elder than eldest ?	Neeraj, but younger tha	an Vinod. Manu is elde	r than Vinod, but y <u>ounge</u> r than Sh <u>ivam,</u> Who is the	
	(1) Sourav	(2) Neeraj	(3) Shivam	(4) Manu	
Ans.	(3)				
Sol.	Neeraj → Sourav	\longrightarrow Vinod \longrightarrow Mar	nu —→ Shivam		
Q.56		B, C, D, E and F are sittin D is second in the left c		centre. A is in the middle of B and C, but E and C are	
56.	-	on sitting in the right o			
_	(1) D	(2) E	(3) B	(4) F	
Ans.	(1)				
Sol. 57.	from 56 to 60 D by the sitting just of	F E	sing hindi informatior	n)	
J I .	(1) B	(2) A	(3) C	(4) F	
Ans.	(1) (1)	(=) 11	(6) 0		
58.	Who is sitting just ir	n front of F?			
	(1) C	(2) B	(3) A	(4) F	
Ans.	(3)				
59 .	Who is sitting just in	front of B?			
	(1) C	(2) D	(3) B	(4) A	
Ans.	(3)				
60 .	Who is sitting just in				
Δ	(1) C	(2) A	(3) F	(4) E	
Ans.	(1)				

Q.61-64 Six books are kept one above another. Biology book is just under the Physics book. Chemistry book is in between Hindi and Geography books. Anthropology book is not on the top. Biology book is at the bottom and Hindi book is on the top.61. Which book is in second place from the top ?

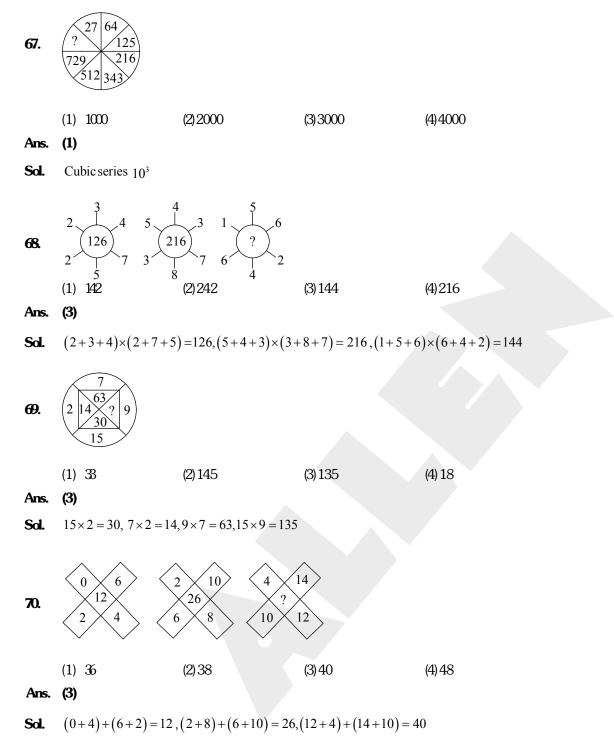
61 .	Which book is in second place from the top ?					
	(1) Chemistry	(2) Anthropology	(3) Geography	(4) Biology		
Ans.	(1)					
62.	Which book is fourth from the bottom ?					
	(1) Hindi	(2) Geography	(3) Anthropology	(4) Chemistry		
Ans.	(2)					
63.	Which book is third f	rom the top ?				
	(1) Geography	(2) Anthropology	(3) Physics	(4) Biology		
Ans.	s. (1)					
64 .	Which book is in between Chemistry and Anthropology?					
	(1) Physics	(2) Geography	(3) Biology	(4) Hindi		
Ans.	(2)					
65 .	Which of the following words will come third in the English dictionary ?					
	(1) Reconcile	(2) Reconstruct	(3) Reconsider	(4) Reconnoitre		
Ans.	(3)					

- Sol. From 61 to 65 Hindi Chemistry Geography Anthropo log y Physics
 - Bio log y

Q.66-70 What will be in the place of (?) ?



Sol.
$$6^2 + 4 = 40, 7^2 + 5 = 54, 8^2 + 6 = 70$$



Q. 71-75 In the following questions two statements and four conclusions I, II, III and IV have been given. According to the logic you have to decide on the basis of the given two statements that which conclusion is correct :

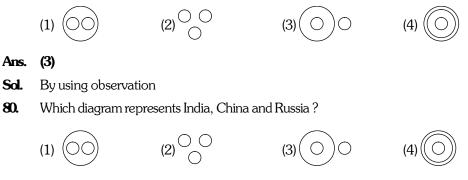
71.	Statements : A. Some students are children.				
71.	B. All children are girls.				
	Conclusions : I. All students are girls.				
	II. Some girls are students.				
	III. Some girls are children.				
	IV. All children are students.				
	(1) Only conclusion II is correct	(2) Conclusions I, II and III are correct			
	(3) All conclusions are correct	(4) Conclusions II and III are correct.			
Ans.	(4)				
Sol.	Statements : A. Some students are children	I			
	: B. All children are girl _{some}				
72.	Statements : A. All papers are pens.				
	B. All pens are wet.				
	Conclusions : I. Some pens are papers.				
	II. No pen is paper.				
	III. Some wet are pens.				
	IV. AH wets are papers.				
	(1) Only conclusion I is correct	(2) Conclusions I or II is correct			
	(3) Conclusion I and III are correct	(4) Conclusions III and IV is correct.			
Ans.	(3)				
Sol.	Statement A: All papers are pensome				
	B: All pens are wet _{some}				
73.	Statements : A. Some windows are doors.				
	B. All doors are handles.				
	Conclusions : I. Some windows are handles.				
	II. All windows are handles.				
	III. Some cats are handles.				
	IV. All cats are handles.				
	(1) Only conclusions are correct	(2) Conclusions II or IV are correct			
	(3) No conclusion is correct	(4) Conclusions I and III are correct.			
Ans.	(NA)				

Sol. NA

74.	Statements : A. Son	ne black are yellow.			
	B. No g	yellow is not white.			
	Conclusions : I. Some yellow are black.				
	II. Some white are black.				
		e white are not black.			
	IV. All w	hite are black.			
	(1) Only conclusion	I is correct	(2) Conclusions II o	r III is correct	
	(3) Conclusion I and	d III are correct	(4) Conclusions III is	s correct.	
Ans.	(3)				
Sol.	Statement A: Some b	lack are yellow _{some}			
	B : No yell	low is not white some			
75.	Statement : A . Some				
		encils are papers.			
	Conclusions : I. All pa	apers are pens.			
		e papers are pens.			
	(1) Only conclusion		(2) Conclusions II is		
	(3) Both conclusion	is I & II are correct	(4) Neither conclusi	ons I nor conclusion II is correct.	
Ans.	(4)				
Sol.	Statement A: Some p	ens are pencils _{some}			
	B: Some	pencils are papers some			
76 .	Which diagram repre	esents the relation be 1	Ruble, Dollar and Rupe	e?	
	(1)	(2) 00	(3) 0	(4)	
Ans.	(3)				
Sol.	By using observatior	ı			
77.	Which diagram repre	esents angle, side and	triangle ?		
	(1) 00	(2)	(3) ())	(4)	
Ans.	(4)				
Sol.	By using observatior				
78.	Which diagram repres	sents TV, Freeze and (Cooler ?		
	(1)	(2)	(3)	(4)	
	·-/ ()	,-,			
Ans.	(1)				

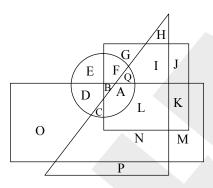
Sol. By using observation

79. Which diagram represents Boy, Girl and Man?



Ans. (2)

- Sol. By using observation
- Q. 81 85 Question Nos, 81 to 85 are based on the following diagram m which four figures (one circle, one square, one triangle; and one rectangle) are overlapping each other. Different regions of the diagram are marked with letters A to Q. Read each question carefully and choose the correct alternatives.



81. In the given diagram which letter is inside the square and triangle, but outside the rectangle and circle ?

(1) G (2) I (3) L (4) F

(2) Ans. Sol. By using observation 82 Which letter is outside the square and triangle, but inside the rectangle and circle ? (1) D (2)B (3) C (4) A (1) Ans. Sol. By using observation 83. Which letter will come inside the square, circle and rectangle, but not inside the triangle? (1)E (2) D (3) C (4) B Ans. (4) Sol. By using observation

01	Which latter is insid	a af all tha firmuna 2			
84 .	Which letter is inside	-	(2) A		
A	(1) C	(2) B	(3) A	(4) Q	
Ans.	(3)				
Sol.	By using observation		1		
85.		e the rectangle, square			
	(1)B	(2) C	(3) A	(4) L	
Ans.	(4)				
Sol.	By using observation				
86.			-	tes earlier than 11:40 and found that his joint director	
				he scheduled time of the meeting ?	
	(1)11.40	(2)11:30	(3) 11:20	(4) 11:50	
Ans.	(3)				
Sol.	From option (3) Taking meeting time	a ac 11.20			
	Director reached at				
	Joint director reach				
87 .	A candidate joined ar	n examination in which i	he answered 108 quest	tions. In the examination every wrong answer will get	
	1				
	negative $\frac{1}{3}$ rd mark	and every correct answ	wer will .get 1 mark. If	the candidate has got zero then how many wrong	
	answers he has give	n ?			
	(1)27	(2)62	(3) 54	(4) 81	
Ans.	(4)				
Sol.	Let number of wrong	g answers $= x$			
	$-\frac{1}{3}x + 108 - x = 0 =$	$\Rightarrow x = 81$			
	3				
88.		ather distributed Rs. 28 nore than the boys the		ach girl gets Rs. 20 and each boy gets Rs. 10. If the ethere ?	
	(1)27	(2) 62	(3) 54	(4) 81	
Ans.	(4)				
Sol.		= r then 10r + 20r + 40	$0-280 \rightarrow r-8$		
89 .	Let number of boys = x then $10x + 20x + 40 = 280 \Rightarrow x = 8$ My mother's age is double of my sister. My father is 20 years elder than me. When my sister was born I was 5 years old.				
α.	•		•	of ages of my father and mother ?	
	(1)5	(2)9	(3) 10	(4) 8	
Ans.	(4)				
Sol.	M = 2S, F = 20 + x,	x = S + 5			
	$S = 17 \rightarrow x = 17 + 5$	= 22, M = 34, F = 42			
	$S = 1 / \rightarrow x = 1 / + S$	-22 , $101 - 34$, $\Gamma = 42$			

$$F - M = 8$$

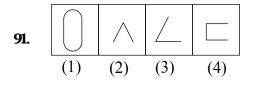
- **90.** B's age is 4 years less than A. D's age is 4 years less than C, but $\frac{1}{4}$ th of A. If C's age is 8 years then B's age is how much time(s) of D?
 - (1) 1 (2) 2 (3) 3 (4) $\frac{1}{2}$

Ans. (3)

Sol.
$$B = A - 4, D = C - 4, D = \frac{1}{4}A, C = 8$$

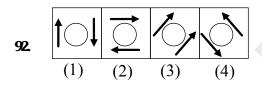
Hence D = 4, A = 16, B = 12

Hence B = 3D



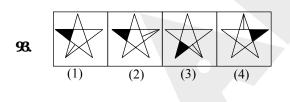
Ans. (1)

Sol. By using visualization



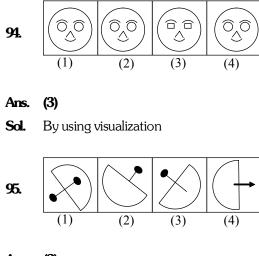
Ans. (3)

Sol. By using visualization



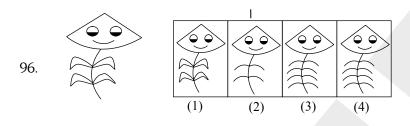
Ans. (2)

Sol. By using visualization





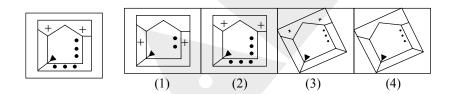
- **Sol.** By using visualization
- **96 to 100.** In the left of each question there is one question figure and to the right there are four answer figures 1,2,3 and 4. You have to select the similar figure to the question figure among the four anser figures.



Ans. (1)

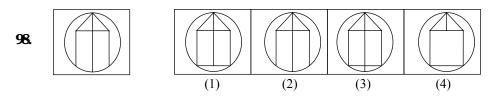
Sol. By using visualization

97.



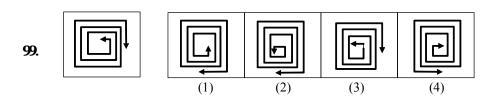
Ans. (2)

Sol. By using visualization



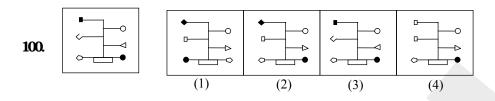
Ans. (2)

Sol. By using visualization



Ans.	(3)
1 11 13.	(U)

Sol. By using visualization



Ans. (3)

Sol. By using visualization